Page 3

Application No.: 10/501,309 Docket No.: AD6800USPCT1

ethylene, wherein:

Amendments to the Claims

- 1. (Currently amended) A film comprising a fluorine containing ethylene copolymer (FCEC) obtained by the copolymerization of ethylene with a suitable fluorine-containing comonomer compounds, wherein the FCEC comprises from about 0.5 wt% to about 40 wt% of a fluorine-containing componer compound and from about 30 wt% to about 99.5 wt%
- (1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of the general formula: Cf-L-O-CO-CR=CH2, wherein:
 - Cf is a fluorinated aliphatic group having at least 4 carbon atoms; (i)
 - (ii) L is a linking group that connects the fluorinated aliphatic group with the (meth)acrylate group, and L is selected from the group consisting of arylene, arylalkylene, sulfonyl, sulfoxy, sulfonamide, carboxyamino, carbonyloxy. urethanylene, and combinations thereof; and
 - (iii) R is H or CH_3 .
- (Currently amended) A fiber comprising a fluorine containing ethylene copolymer 2. (FCEC) obtained by the copolymerization of ethylene with a suitable fluorine-containing comonomer compounds, wherein the FCEC comprises from about 0.5 wt% to about 40 wt% of a fluorine-containing comonomer compound and from about 30 wt% to about 99.5 wt% ethylene, wherein:
- (1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of the general formula: Cf-L-O-CO-CR=CH₂, wherein:
 - Cf is a fluorinated aliphatic group having at least 4 carbon atoms; (i)
 - L is a linking group that connects the fluorinated aliphatic group with the (ii) (meth)acrylate group, and L is selected from the group consisting of arylene, arylalkylene, sulfonyl, sulfoxy, sulfonamide, carboxyamino, carbonyloxy, urethanylene, and combinations thereof; and
- (iii) R is H or CH₃; and wherein the fiber is obtained by a melt-blowing process.
- (Currently amended) An article having a composite or multilayer structure comprising 3. an outer layer comprising: a fluorine containing ethylene copolymer (FCEC) obtained by the

Application No.: 10/501,309 Docket No.: AD6800USPCT1

Page 4

copolymerization of ethylene with suitable a fluorine-containing comonomer compounds, wherein the FCEC comprises from about 0.5 wt% to about 40 wt% of a fluorine-containing comonomer compound and from about 30 wt% to about 99.5 wt% ethylene, wherein:

(1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of the general formula: Cf-L-O-CO-CR=CH₂, wherein:

- (i) Cf is a fluorinated aliphatic group having at least 4 carbon atoms;
- (ii) L is a linking group that connects the fluorinated aliphatic group with the (meth)acrylate group, and L is selected from the group consisting of arylene, arylalkylene, sulfonyl, sulfoxy, sulfonamide, carboxyamino, carbonyloxy, urethanylene, and combinations thereof; and
- (iii) R is H or CH₃.
- 4. (Currently amended) A microporous membrane comprising a fluorine containing ethylene copolymer (FCEC) obtained by the copolymerization of ethylene with suitable a fluorine-containing comonomer compounds, wherein the FCEC comprises from about 0.5 wt% to about 40 wt% of a fluorine-containing comonomer compound and from about 30 wt% to about 99.5 wt% ethylene, wherein:
- (1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of the general formula: Cf-L-O-CO-CR=CH₂, wherein:
 - (i) Cf is a fluorinated aliphatic group having at least 4 carbon atoms;
 - (ii) L is a linking group that connects the fluorinated aliphatic group with the (meth)acrylate group, and L is selected from the group consisting of arylene, arylalkylene, sulfonyl, sulfoxy, sulfonamide, carboxyamino, carbonyloxy, urethanylene, and combinations thereof; and
- (iii) R is H or CH₃; and wherein the membrane is useful as protection protects against permeation of liquids through the membrane.
- 5. (Currently amended) A flash spun plexifilamentary product comprising a fluorine containing ethylene copolymer (FCEC) obtained by the copolymerization of ethylene with suitable a fluorine-containing comonomer empounds, wherein the FCEC comprises from about 0.5 wt% to about 40 wt% of a fluorine-containing comonomer empound and from about 30 wt% to about 99.5 wt% ethylene, wherein:

FEB. 23. 2006 11:15AM NO. 2873 P. 6

Application No.: 10/501,309 Docket No.: AD6800USPCT1

(1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of

Page 5

- (1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of the general formula: Cf-L-O-CO-CR=CH₂, wherein:
 - (i) Cf is a fluorinated aliphatic group having at least 4 carbon atoms;
 - (ii) L is a linking group that connects the fluorinated aliphatic group with the (meth)acrylate group, and L is selected from the group consisting of arylene, arylalkylene, sulfonyl, sulfoxy, sulfonamide, carboxyamino, carbonyloxy, urethanylene, and combinations thereof; and
 - (iii) R is H or CH₃.
- 6. (Currently amended) A melt spun fibrous article comprising a fluorine containing ethylene copolymer (FCEC) obtained by the copolymerization of ethylene with suitable a fluorine-containing comonomer empounds, wherein the FCEC comprises from about 0.5 wt% to about 40 wt% of a fluorine-containing comonomer empound and from about 30 wt% to about 99.5 wt% ethylene, wherein:
- (1) the fluorine-containing comonomers are is a fluorinated acrylate or methacrylate esters of the general formula: Cf-L-O-CO-CR=CH₂, wherein:
 - (i) Cf is a fluorinated aliphatic group having at least 4 carbon atoms;
 - (ii) L is a linking group that connects the fluorinated aliphatic group with the (meth)acrylate group, and L is selected from the group consisting of arylene, arylalkylene, sulfonyl, sulfoxy, sulfonamide, carboxyamino, carbonyloxy, urethanylene, and combinations thereof; and
- (iii) R is H or CH₃; and wherein the fibrous products article are is obtained by melt spinning or multicomponent fiber spinning a FCEC or a blend thereof.
- 7. (New) A film of Claim 1 wherein L is selected from the group consisting of sulfonyl, sulfoxy, carboxyamino, carbonyloxy, urethanylene, and combinations thereof.
- 8. (New) A fiber of Claim 2 wherein L is selected from the group consisting of sulfonyl, sulfoxy, carboxyamino, carbonyloxy, urethanylene, and combinations thereof.
- 9. (New) An article of Claim 3 wherein L is selected from the group consisting of sulfonyl, sulfoxy, carboxyamino, carbonyloxy, urethanylene, and combinations thereof.

FEB. 23. 2006 11:15AM NO. 2873 P. 7

Application No.: 10/501,309 Docket No.: AD6800USPCT1

Page 6

10. (New) A microporous membrane of Claim 4 wherein L is selected from the group consisting of sulfonyl, sulfoxy, carboxyamino, carbonyloxy, urethanylene, and combinations thereof.

- 11. (New) A flash spun plexifilimentary product of Claim 5 wherein L is selected from the group consisting of sulfonyl, sulfoxy, carboxyamino, carbonyloxy, urethanylene, and combinations thereof.
- 12. (New) A melt spun fibrous article of Claim 6 wherein L is selected from the group consisting of sulfonyl, sulfoxy, carboxyamino, carbonyloxy, urethanylene, and combinations thereof.